RECLAMATION

Managing Water in the West

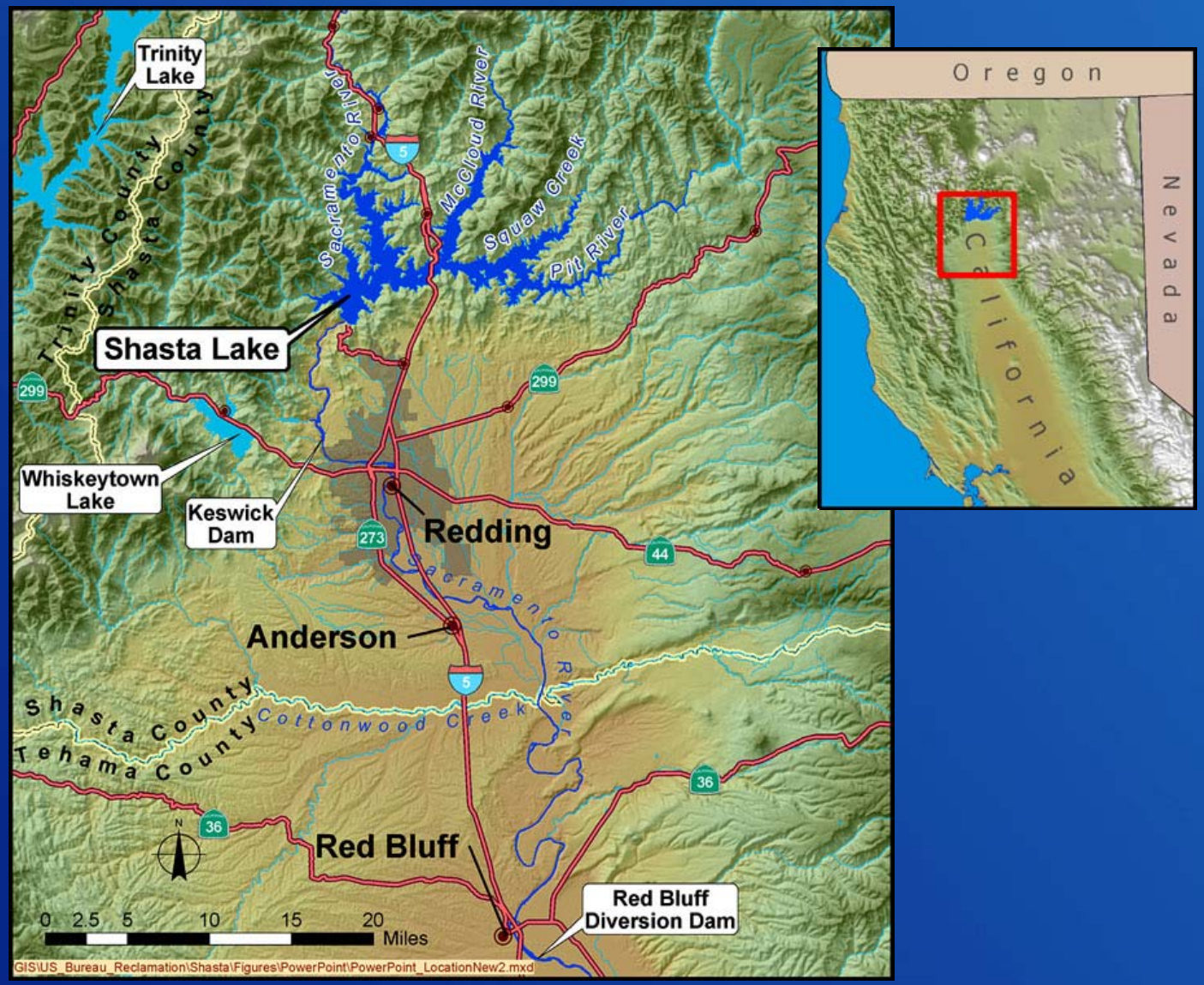
Shasta Lake Water Resources Investigation – SLWRI

Water Supply Subcommittee

May 17 2007

U.S. Department of the Interior
Bureau of Reclamation

Primary Study Area



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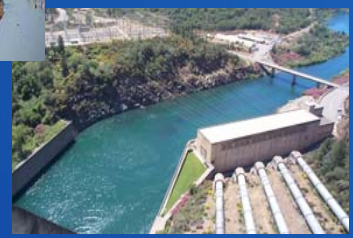
Study Objectives

- **Primary Objectives**
  - –Anadromous Fish Survival
  - –Water Supply Reliability
- **Secondary Objectives**
  - –Ecosystem Restoration
  - –Flood Damage Reduction
  - –Hydropower
  - –Recreation





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Comprehensive Alternatives (CP)

- Three Alternatives - Increase Water Supply Reliability With Benefit to Anadromous Fish
  - **CP1 -** 6.5 Feet Dam Raise (256,000 ac-ft)
  - **CP2 -** 12.5 Feet Dam Raise (443,000 ac-ft)
  - **CP3 -** 18.5 Feet Dam Raise (634,000 ac-ft)
- **CP4** - Increase Anadromous Fish With Benefit to Water Supply Reliability (18.5 Foot Dam Raise)
- **CP5 -** Multiple Purpose Alternative (18.5 Foot Dam Raise)
  - Increase Anadromous Fish Population
  - Increase Water Supply Reliability
  - Provide Lake Area Ecosystem Restoration
  - Improved Public Safety At Shasta Dam
  - Increase Lake Area Recreation
- No-Action Alternative

Preliminary Estimates of Potential Accomplishments & Costs

Item	CP1	CP2	CP3	CP4	CP5
Dam Raise (Ft)	6.5	12.5	18.5	18.5	18.5
Storage Increase (TAF)	256	443	634	634	634
Accomplishments					
Primary					
Anadromous Fish (1,000)	360	370	510	1,500	510
Water Supply (Drought Period TAF/Yr)	91	106	133	91	133
Secondary					
Ecosystem Restoration	-	-	-	-	UD
Hydropower (Gwh/Yr)	17	42	54	94	54
Flood Damage Reduction	Increase	Increase	Increase	Increase	Increase
Recreation (1,000 User Days/Yr)	83	141	224	224	UD
Economics ($ Millions)					
Construction Cost	531	697	825	825	855
Annual Costs	30	38	46	46	48
Annual Benefits	39	51	60	83	62

Note: SUBJECT TO CHANGE.

UD = Under Development

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Purposes & Contributions

- **Potential Project Purposes**
  - Environmental - Increase Anadromous Fish Population & Potential for Ecosystem Restoration
  - Water Supply - Increase Drought Period Yield (Preliminary Costs Less Than $200 Per Acre-Foot)
  - Power – Increase Net Generation
  - Flood Damage Reduction – Promote Public Safety At Shasta Dam
  - Recreation – Increase Use & Improve Facilities
- **Other Beneficial Contributions**
  - Contribute to Climate Change Response
  - Contribute to Improved Delta Water Quality
  - Support Objectives of Other CALFED Storage Projects

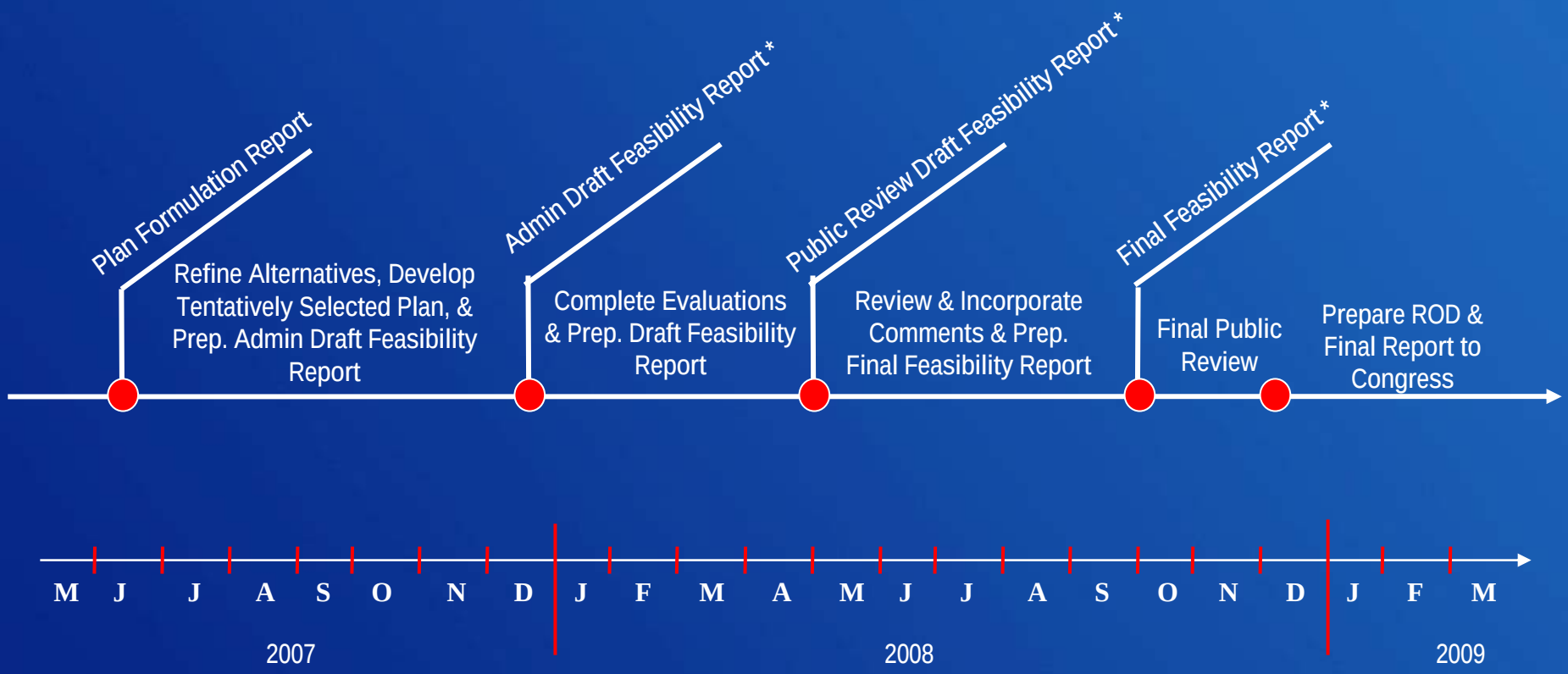
Challenges

- **Resolve Remaining California McCloud River Issues PRC 5093.542 (c)**
- **Resolve Outstanding Lake Area Recreation Interest Issues**
- **Continue to Coordinate on Native American Concerns**

Next Steps

- **Continue Public & Stakeholder Coordination**
- **Prepare Administrative Draft Feasibility Report/EIS**

SLWRI Feasibility Study Schedule



*** Decision Document & EIS**

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